Conversion Specifications

for MeSH to

USMARC Authority Format

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Appendix B

Introduction

All MeSH main heading (RECTYPE = D) and subheading (RECTYPE = Q) records that are valid for the current MeSH year are converted from MeSH204 (NLM's internal MeSH vocabulary file). In addition, records for valid main heading/topical subheading combinations are created. No combination records are created for main heading/subheading combinations with form, geographic, or language subheadings. Records for supplementary chemical terms (RECTYPE = C) are not converted. All subheading records appear in the data first, in the order they were entered into our internal file and then appears each main heading (in internal file order) followed by all its combination records.

The USMARC fill character (ASCII hex 7C) is represented in this document by |. When it is important to have an explicit symbol for a blank, | is used. The MeSH204 subelement separator and the USMARC subfield delimiter are indicated by |. In each field specification below, the name of a MeSH204 or USMARC field or subfield is generally given only the first time its mnemonic is used. The specifications for indicators of a variable field precede the specifications for the content of the field as that is the order of data in the record; however, the field should be created only as directed in the content specifications. Some MeSH204 field and value names and refer to main headings and subheadings by their alternate names, descriptor and qualifier, respectively.

For general technical specifications, see <u>USMARC Specifications for Record Structure</u>, <u>Character Sets</u>, <u>Tapes</u>.

Summary of Recent Changes:

In 1996, the 155 field was implemented for form/genre subject headings. These had previously been included in field 150. These changes began with the 1997 MeSH vocabulary.

In 1997, the 185 field was implemented for form subdivision headings. These had previously been included in field 180. These changes began with the 1998 MeSH vocabulary.

Also in 1997, all nodal descriptors were eliminated. These were generally replaced by subject headings in field 150 except for those replaced by geographic headings in field 181. These changes began with the 1998 MeSH vocabulary.

Changes to the text from previous versions are shown typographically with *bold italics*. Deleted text that is no longer applicable is shown through strikeover.

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■ Leader

Byte(s)	<u>Name</u>	Type of processing
00-04	Logical record length	system supplied
05	Record status	special; see below
06	Type of record	system supplied: z (Authority data)
07-09	Undefined	system supplied: bbb
10	Indicator count	system supplied: 2
11	Subfield code count	system supplied: 2
12-16	Base address of data	system supplied
17	Encoding level	system supplied: n (Complete authority record)
18-19	Undefined	system supplied: bb
20-23	Entry map	system supplied: 4500

A base data set is created following all the other specifications delineated in this document, with all Leader/05 (Record status) values set at "n" (New). An update data set is processed for records added or changed from the previous year. Each record in the new data which has an exact duplicate in the old data is deleted. Each record in the new data which has a different version in the old data has its Record status changed to "c" (Corrected or revised). Each record which only appears in the old data is added to the new data with its Record status set to "d" (Deleted (other)).

Examples

00185nzbbb2200073nbb4500 (a new combination record)

00634czbbb2200121nbb4500 (a changed subheading record)

01319dzbbb2200217nbb4500 (a deleted main heading record)

Deviations from USMARC

NLM does not currently store the necessary information to use Leader/05 (Record status) values "s" (Deleted; heading split into two or more headings) or "x" (Deleted; heading replaced by another heading). Records for which these values are applicable are assigned value "d" (Deleted (other)). Values "s" and "x" are labeled as Mandatory if Applicable in the USMARC format.

■ Directory

The directory is constructed as described in the <u>USMARC Format for Authority Data</u> and the <u>USMARC Specifications for Record Structure, Character Sets, Tapes</u>.

Dir. - p. 4 rev. October 1, 1997

■ 001 Control number

Main heading and subheading records

Store the UI (Unique identifier).

Combination main heading/subheading records

Store the UI of the main heading followed by the UI of the subheading.

Examples

001 D007696 (main heading)

001 Q000177 (subheading)

001 D013601Q000473 (combination heading)

Note: Each UI begins with "D" (for main headings) or "Q" (for subheadings) followed by six numerals. Therefore 001s on main heading and subheading records are seven bytes long, and 001s on combination records are 14 bytes long.

001 - p. 5 rev. October 1, 1997

■ 003 Control number identifier

All records

Store "DNLM".

Example

003 DNLM

Conversion history

1989-1994: This field was not used.

003 - p. 6 rev. October 1, 1997

■ 005 Date and time of latest transaction

All records

Store the date of the pull for conversion in the form YYYYMMDD, followed by "000000.0".

Example

005 19940112000000.0

Conversion history

1989-1993: This field was not used.

005 - p. 7 rev. October 1, 1997

■ 008 Fixed-length data elements

Byte(s)	<u>Name</u>	Type of processing
00-05	Date entered on file	conversion
06	Direct/indirect geographic	system supplied: b (Not subdivided geographically)
	subdivision	
07	Romanization scheme	system supplied: n (Not applicable)
08	Undefined	system supplied: b
09	Kind of record	conversion
10	Descriptive cataloging rules	system supplied: n (Not applicable)
11	Subject Heading system/thesaurus	system supplied: c (Medical Subject Headings)
12	Type of series	system supplied: n (Not applicable)
13	Numbered/unnumbered series	system supplied: n (Not applicable)
14	Heading usemain or added entry	system supplied: b (Heading is not appropriate for use as
		main or added entry)
15	Heading usesubject added entry	system supplied: a (Heading is appropriate for use as
		subject added entry)
16	Heading useseries added entry	system supplied: b (Heading is not appropriate for use as
		series added entry)
17	Type of subject subdivision	conversion
18-27	Undefined	system supplied: ๒๒๒๒๒๒๒
28	Type of government agency	conversion
29	Reference evaluation	conversion
30	Undefined	system supplied: b
31	Record update in progress	system supplied: a (Record can be used)
32	Undifferentiated personal name	system supplied: n (Not applicable)
33	Level of establishment	system supplied: a (Fully established heading)
34-37	Undefined	system supplied: bbbb
38	Modified record	system supplied: b (Not modified)
39	Cataloging source	system supplied: b (National Library of Medicine)

For the bytes whose Type of processing is listed as conversion, see the following pages.

Examples

008 731227๒n๒ancnnbabn๒๒๒๒๒๒๒๒๒๒๓ana๒๒๒๒๒ (combination heading)

008 - p. 8 rev. October 1, 1997

Deviations from USMARC

008/06 (Direct/indirect geographic subdivision) is currently being set to "b" (Not subdivided geographically) for all records. Although many main headings and subheadings may be subdivided geographically, this information is not stored in a manner that is convertible. This byte is labeled as Optional in the USMARC format.

008/15 (Heading use--subject added entry) is currently being set to "a" (Heading is appropriate for use as subject added entry). There are a few headings for which this is not true in the application of MeSH in cataloging (but is true in indexing). These are headings for corporate bodies (e.g., United States Department of Agriculture) for which catalogers use the AACR2 form of the heading and check tags (e.g., Human). This byte is labeled as Mandatory in the USMARC format.

008/33 (Level of establishment) is currently being set to "a" (Fully established heading) in all records. According to the USMARC documentation, this value is only appropriate for established heading records; "n" (Not applicable) is the appropriate code for subdivision and node label records. This byte is labeled as Mandatory in the USMARC format.

Conversion history

1989-1993: 008/38: This was set to "|".

008 - p. 9 rev. October 1, 1997

\blacksquare 008/00-05 Date entered on file

Main heading records

Store the first of the following fields that is present: DA (Date of entry), DY (Date minor established), DX (Date major established). If none of these fields is present, store "731227".

Subheading records

Store the first of the following fields that is present: DA (Date of entry), DQ (Date qualifier established). If neither of these fields is present, store "731227".

Combination main heading/subheading records

Store the same data as that in the record for the main heading portion of the combination heading.

008/00-05 - p. 10 rev. October 1, 1997

■ 008/09 Kind of record

Main heading records

If DC (Descriptor class) = 5 (Non MeSH), store "e" (Node label record). Otherwise, store "a" (Established heading record).

Descriptor class = 5 (Non MeSH) is not used after 1997.

Subheading records

Store "d" (Subdivision record).

Combination main heading/subheading records

Store "a" (Established heading record).

008/09 - p. 11 rev. October 1, 1997

■ 008/17 Type of subject subdivision

Main heading and combination main heading/subheading records

Store "n" (Not applicable).

Subheading records

value of QT (Qualifier type)	<u>store</u>
1 (Topical)	a (Topical)
2 (Form)	v (Form)
4 (Geographic)	d (Geographic)
5 (Language)	e (Language)

008/17 - p. 12 rev. October 1, 1997

■ 008/28 Type of government agency

Main heading records

Store "|" (No information provided).

Subheading and combination main heading/subheading records

Store "b" (Not a government agency).

Conversion history

1989-1993 Subheading and combination main heading/subheading records A "|" (No information provided) was stored here. This was changed because none of these records are for government agencies.

008/28 - p. 13 rev. October 1, 1997

■ 008/29 Reference evaluation

Main heading and subheading records

Store "|" (No information provided).

Combination main heading/subheading records

Store "n" (Not applicable).

Deviations from USMARC

This byte is labeled as Mandatory in the USMARC format. (The fill character is not permitted in mandatory 008 bytes.)

Conversion history

1989-1992: All records--Store "n". This was changed for main heading and subheading records because many of them do have 4XX and/or 5XX fields.

008/29 - p. 14 rev. October 1, 1997

■ 040 Cataloging source

Indicators

Set both indicators to "b" (Undefined).

All records

Store "DNLM" in subfields \neq a (Original cataloging agency) and \neq c (Transcribing agency). Store "DNLM" in \neq d (Modifying agency) if Leader/05 (Record status) has been set to "c" (Corrected or revised) (see discussion of Leader/05 in the Leader section).

Examples

040 bb ‡aDNLM‡cDNLM (new or deleted heading)

040 bb $\pm aDNLM \pm cDNLM \pm dDNLM$ (changed record)

040 - p. 15 rev. October 1, 1997

■ 072 Subject category code

Indicators

Set the first indicator to "b" (Undefined). Set the second indicator to "b" (No information provided).

Main heading records

Create an 072 for each MN (MeSH tree number). Store in subfield $\pm a$ (Subject category code) the first set of characters up to and including the first period, minus any leading zero that appears in the numeric portion of the string. Store in a separate occurrence of subfield $\pm x$ (Subject category code subdivision) each successive set of characters (beginning after a period and ending with a period or the end of the MN), minus any leading zeroes.

Examples

Conversion history

1989-1992: Indicators--Set the second indicator to "7" (Code source specified in subfield ± 2). Main heading records--[above plus] Store "MeSH" in subfield ± 2 (Code source). Second indicator value "b" (defined as "the source of the subject category code is the same as the subject heading system/thesaurus identified in 008/11 (Subject heading system)") is appropriate to our records, and subfield ± 2 is not needed.

072 - p. 16 rev. October 1, 1997

■ 073 Subdivision usage

Indicators

Set both indicators to "b" (Undefined).

Subheading records

Create an 073 if the QT (Qualifier type) is "1" (Topical) and one or more TNs (Tree node allowed) are present. Store in a separate subfield \ddagger a (Subdivision usage) each TN, minus any leading zeroes in each string of numeric characters. Store "MeSH" in subfield \ddagger z (Source).

Examples

073 180	RR RR	‡aG1‡aG2‡aI2‡aN2‡zMeSH ‡xorganization & administration
073	RR	‡aC1‡aC2‡aC3‡aC4‡aC5‡aC6‡aC7‡aC8‡aC9‡aC10‡aC11‡aC12 ‡aC13‡aC14‡aC15‡aC16‡aC17‡aC18‡aC19‡aC20‡aC21‡aC22
180	RR	‡aC23‡aF3‡zMeSH ‡xcomplications

Deviations from USMARC

TNs are generated anew at the end of each MeSH year. If a subheading is valid with 70% or more main headings in a particular tree, that tree number is stored in a TN on the record for the subheading. Cataloging-only subheadings (the six "in [life stage]" subheadings, and all the form, geographic, and language subheadings) are validated for use with main headings in a different manner from other subheadings in MeSH204 and are not recorded in a TN. Therefore, the 073 is only a guide to the usage of the subheading. The existence of a combination main heading/subheading record is the accurate method of determining from the MeSH/MARC file whether a main heading/topical subheading is valid.

073 - p. 17 rev. October 1, 1997

■ 150 Heading—topical term

Indicators

Set both indicators to "b" (Undefined).

Main heading records

Create a 150 if the DC (Descriptor class) \neq "4" (Geographic) and \neq "2" (Genre). If the DC = "5" (Non MeSH), store in subfield \neq a (Topical term or geographic name as entry element) the string in the MH (MeSH heading) up to but not including " \forall (Non \forall MeSH)". Otherwise, store in subfield \neq a the entire MH. Descriptor class = 5 (Non MeSH) is not used after 1997.

Combination main heading/subheading records

Create a 150 if the main heading's DC \neq "4" and \neq "2". Store the main heading in subfield \neq a. Store the subheading in subfield \neq x.

Examples

```
150 bb ‡aHealth Facility Planning

008/09 a (Established heading record)

150 bb ‡aNursing

150 bb ‡aMouse Leukemia Viruses‡xenzymology
```

Note: Each significant word in a main heading is capitalized.

Deviations from USMARC

Corporate bodies are converted to 150s rather than 110s as there is no indication in the MeSH204 record that the heading is for a corporate body.

150 bb =aPan American Health Organization

Conversion history

150 - p. 18 rev. October 1, 1997

1989-1992: Indicators--The second indicator was computed to count initial numbers and hyphen as nonfiling indicators. 1993-1994: Indicators--The second indicator was set to "0". 1989-1994: Subheadings were stored in X5X fields rather than X8X fields.

150 - p. 19 rev. October 1, 1997

■ 151 Heading—geographic name

Indicators

Set both indicators to "b" (Undefined).

Main heading records

Create a 151 if the DC (Descriptor class) = "4" (Geographic). Store the MH (MeSH heading) in subfield ‡a (Topical term or geographic name as entry element).

Combination main heading/subheading records

Create a 151 if the main heading's DC = "4". Store the main heading in subfield $\pm a$. Store the subheading in subfield $\pm x$ (General subdivision).

Examples

151	RR	‡aCommonwealth of Independent States
008/09 151	RR	a (Established heading record) ‡aDjibouti
151	RR	‡aNew York City‡xepidemiology

Note: Each significant word in a geographic main heading is capitalized.

Deviations from USMARC

Non MeSH geographic main headings have DC = 5 (Non MeSH) not 4 (Geographic), so they are converted to 150s rather than 151s.

Conversion history

1989-1992: Indicators--The second indicator was computed to count initial numbers and hyphen as nonfiling indicators. 1993-1994: Indicators--The second indicator was set to "0". 1989-1994: Subheadings were stored in X5X fields rather than X8X fields.

150 - p. 20 rev. October 1, 1997

■ 155 Heading—genre/form term

Indicators

Set both indicators to "b" (Undefined).

Main heading records

Create a 155 if the DC (Descriptor class) = "2" (Publication Type). Store the MH (MeSH heading) in subfield $\pm a$ (Genre/form term).

Examples

```
155 bb \pm aBibliography [Publication Type]
```

008/09 a (Established heading record) 155 bb \(\pm \alpha \) Bibliography [Publication Type]

Conversion history

Until 1997 vocabulary year, genre/form terms were entered in field 150.

155 - p. 21 rev. October 1, 1997

■ 180 Heading—general subdivision

Indicators

Set both indicators to "b" (Undefined).

Subheading records

Create a 180 if the QT (Qualifier type) \neq "4" (Geographic) or \neq "2" (Form). Store in a subfield \neq x (General subdivision) the string in SH (Subheading) up to but not including "b-b". Store any portion after a "b-b" in a separate occurrence of subfield \neq x.

Examples

180	RR	‡xFrench
180	RR	‡xin middle age
180	RR	‡xtherapy
008/09	9	d (Subdivision record)
180	RR	‡xnursing

Note: Each significant word in a language subheading is capitalized. Topical subheadings are not specially capitalized.

Conversion history

1989-1994: Subheadings were stored in X5X fields rather than X8X fields.

■ 181 Heading—geographic subdivision

Indicators

Set both indicators to "b" (Undefined).

Subheading records

Create a 181 if the QT (Qualifier type) = "4" (Geographic). Store SH (Subheading) in subfield $\pm z$ (Geographic subdivision).

Example

008/09 d (Subdivision record) 151 bb +zDjibouti

Note: Each significant word in a geographic subheading is capitalized.

Conversion history

1989-1994: Subheadings were stored in X5X fields rather than X8X fields.

181 - p. 23 rev. October 1, 1997

■ 185 Heading—form subdivision

A form or genre term used as a heading in a subdivision record.

Indicators

Set both indicators to "b" (Undefined).

Subheading records

Create a 185 if the QT (Qualifier type) = "2" (Form). Store in a subfield $\pm v$ (Form subdivision) the string in SH (Subheading) up to but not including "b-b". Store any portion after a "b-b" in a separate occurrence of subfield $\pm v$.

Example

- 185 ##\$vabstracts
- 185 ##\$vabstracts \$vaudiocasettes
- 185 ##\$vaudiocassettes

Conversion history

1989-1994: Subheadings were stored in X5X fields rather than X8X fields. A form term used as a heading in a subdivision record.

181 - p. 24 rev. October 1, 1997

Complex see also reference—subject **360**

Indicators

Set both indicators to "b" (Undefined).

Main heading records

Create a 360 if CX (Consider also cross reference) is present. Store "consider also terms at" in subfield ‡I (Explanatory text). Store in a separate occurrence of subfield \(\pma\) a (Heading referred to) each set of characters after "consider also terms at" (other than "and") bounded by spaces or the end of the CX, minus any commas.

Examples

150 360	RR RR	
MH		Nervous System
CX		consider also terms at NERVE and NEUR-
	conv	erts to
150	ВR	‡aNervous System
360	ВR	#iconsider also terms at #aNERVE #aNEUR-

Note: Each heading/portion referred to appears in all capitals, and, if a prefix, ends with a hyphen.

Deviations from USMARC

The definition of subfield ‡a restricts its use to established headings. We store here established headings as well as beginning portions of established headings. The definition also states that "adjacent headings referred to may be contained in a single subfield ‡a." This is how the examples in the USMARC documentation are constructed. We store each heading in a separate occurrence of subfield ‡a to allow users of our data more flexibility in the display of this field.

Conversion history

1989-1992: Main heading records--This field was not used.

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■ 450 See from tracing—topical term

Indicators

Set both indicators to "b" (Undefined).

Main heading records

- 1. Create a 450 if the DC (Descriptor class) ≠ "4" (Geographic) for each EN (Entry term (non-print)), EP (Entry term (print)), and PT (Entry term (permuted)). If converting an EN or a PT, store in subfield ‡w (Control subfield) "nnna" (Reference not displayed). Store in subfield ‡a (Topical term or geographic name as entry element) the string in the PT or the first subelement of EN or EP, up to but not including "b(NonbMeSH)".
- 2. Create a 450 if the DC (Descriptor class) \neq "4" (Geographic), for each instance where the MH (MeSH heading) appears in the MH subelement of an EC (Entry combination) that does not contain a SHOUT subelement. Store in subfield =a (Topical term or geographic name as entry element) the MH of that other record. Store the unabbreviated form of the subheading in the SHIN subelement of the EC in that other record in subfield =x (General subdivision).

Combination main heading/subheading records

Create a 450 if the DC (Descriptor class) \neq "4" (Geographic), for each instance where the main heading portion of the combination heading appears on a MeSH204 record in the MH subelement of an EC (Entry combination) and the subheading portion appears in the SHOUT subelement of the same EC. Store in subfield =a (Topical term or geographic name as entry element) the MH of that other record. Store the unabbreviated form of the subheading in the SHIN subelement of the EC in that other record in subfield =x (General subdivision).

Examples

MH		HIV Antibodies
EP		‡Lymphadenopathy-Associated Antibodies‡
EN		‡Lymphadenopathy Associated Antibodies‡
PT		Antibodies, Lymphadenopathy-Associated
PT		Antibodies, Lymphadenopathy Associated
	conver	ts to
150	RR	‡aHIV Antibodies
450	ВR	‡aLymphadenopathy-Associated Antibodies
450	ВR	‡wnnna‡aLymphadenopathy Associated Antibodies
450	ВR	‡wnnna‡aAntibodies, Lymphadenopathy-Associated
450	RR	+wnnna+aAntibodies, Lymphadenopathy Associated

450 - p. 26 rev. October 1, 1997

```
MH Heart

EC CY‡Myocardium‡CY
converts to

150 bb ‡aHeart
and

150 bb ‡aMyocardium‡xcytology

450 bb ‡aHeart‡xcytology
```

Note: Each significant word in a main heading cross reference is capitalized.

Deviations from USMARC

The particular USMARC field that a cross reference is converted to is based on the DC or QT of the heading to which it refers, rather than the type of the cross reference itself. Corporate body cross references are converted to 450s rather than 410s as there is no indication in the MeSH204 record that the reference is for a corporate body.

MH		United States Indian Health Service
EP		‡Indian Health Service (U.S.)‡
	conv	erts to
150	ВR	‡aUnited States Indian Health Service
450	ВB	‡aIndian Health Service (U.S.)

Conversion history

1989-1992: Indicators--The second indicator was computed to count initial numbers and hyphen as nonfiling indicators. Main heading records--Subfield ‡w was not converted. 1993-1994: Indicators--The second indicator was set to "0". 1989-1994: Subheadings were stored in X5X fields rather than X8X fields. Cross references from ECs were not created.

450 - p. 27 rev. October 1, 1997

■ 451 See from tracing—geographic name

Indicators

Set both indicators to "b" (Undefined).

Main heading records

Create a 451 if the DC (Descriptor class) = "4" (Geographic) for each EN (Entry term (non-print)), EP (Entry term (print)), and PT (Entry term (permuted)). If converting an EP or a PT, store in subfield ‡w (Control subfield) "nnna" (Reference not displayed). Store in subfield ‡a (Topical term or geographic name as entry element) the first subelement of EN or EP, or the entire PT.

Examples

MH

EP		‡Irian Jaya‡
	convert	s to
151	RR	‡aIndonesia
451	RR	‡aIrian Jaya
MH		Africa, Western
EN		‡Western Africa‡
	convert	s to
008/09		a (Established heading record)
151	ВR	‡aAfrica, Western
451	RR	‡wnnna‡aWestern Africa

Indonesia

Note: Each significant word in a geographic main heading cross reference is capitalized.

Deviations from USMARC

The particular USMARC field that a cross reference is converted to is based on the DC of the heading to which it refers, rather than the type of the cross reference itself.

Conversion history

1989-1992: Indicators--The second indicator was computed to count initial numbers and hyphen as nonfiling indicators. Main heading records--Subfield ‡w was not converted.

1993-1994: Indicators--The second indicator was set to "0". 1989-1994: Subheadings were stored in X5X fields rather than X8X fields.

451 - p. 28 rev. October 1, 1997

■ 480 See from tracing—general subdivision

Indicators

Set both indicators to "b" (Undefined).

Subheading records

Create a 480 if the QT (Qualifier type) \neq "4" (Geographic) or "2" (Topical) for each QX (Qualifier cross reference) and QA (Qualifier abbreviation). Store in subfield \neq x (General subdivision) the first subelement of QX or the entire QA.

Examples

SH		urine
QA		UR
	conve	erts to
180	ВR	‡xurine
480	ВR	‡xUR

Note: Each significant word in a language subheading cross reference is capitalized. Topical subheading cross references are not specially capitalized. Qualifier abbreviations are composed of two capital letters.

Conversion history

1989-1994: Subheadings were stored in X5X fields rather than X8X fields.

480 - p. 29 rev. October 1, 1997

■ 481 See from tracing—geographic subdivision

Indicators

Set both indicators to "b" (Undefined).

Subheading records

Create a 481 if the QT (Qualifier type) = "4" (Geographic) for each QX (Qualifier cross reference). Store in subfield $\pm z$ (Geographic subdivision) the first subelement of QX.

Example

SH		Africa, Western
QX		‡Western Africa‡
	conve	erts to
008/09		d (Subheading record)
181	RR	‡zAfrica, Western
481	ВR	‡zWestern Africa

Note: Each significant word in a geographic subheading cross reference is capitalized.

Deviations from USMARC

The particular USMARC field that a cross reference is converted to is based on the QT of the heading to which it refers, rather than the type of the cross reference itself.

Conversion history

1989-1994: Subheadings were stored in X5X fields rather than X8X fields.

481 - p. 30 rev. October 1, 1997

■ 550 See also from tracing—topical term

Indicators

Set both indicators to "b" (Undefined).

Main heading records

Create a 550 if the DC (Descriptor class) \neq "4" (Geographic), for each instance where the MH (MeSH heading) appears as an FX (Forward cross reference) on another MeSH204 record. Store in subfield \neq a (Topical term or geographic name as entry element) the MH of that other record, up to but not including "b(NonbMeSH)".

Example

MH		Horseshoe Crabs
FX		Limulus Test
	and	
MH		Limulus Test
	conve	ert to
150	ВB	‡aHorseshoe Crabs
	and	
150	ВB	‡aLimulus Test
550	ВR	‡aHorseshoe Crabs

Note: Each significant word in a main heading cross reference is capitalized.

Deviations from USMARC

The particular USMARC field that a cross reference is converted to is based on the DC of the heading to which it refers, rather than the type of the cross reference itself.

Conversion history

1989-1992: Main heading records--This field stored the referred-to heading on the record for the referred-from heading rather than the reverse. Reciprocal references, therefore, were correct. Indicators--The second indicator was computed to count initial numbers and hyphen as nonfiling indicators. 1993-1994: Indicators--The second indicator was set to "0".

550 - p. 31 rev. October 1, 1997

■ 551 See also from tracing—geographic name

Indicators

Set both indicators to "b" (Undefined).

Main heading records

Create a 551 if the DC (Descriptor class) = "4" (Geographic), for each instance where the MH (MeSH heading) appears as an FX (Forward cross reference) on another MeSH204 record. Store the MH of that other record in subfield $\pm a$ (Geographic name).

Note: MeSH currently has no see also references among its geographic terms, so there will be no conversion to this field at this time.

Deviations from USMARC

The particular USMARC field that a cross reference is converted to is based on the DC of the heading to which it refers, rather than the type of the cross reference itself.

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■ 667 Nonpublic general note

Indicators

Set both indicators to "b" (Undefined).

Main heading and subheading records

Create a 667 if AN (Annotation) is present. Store the AN in subfield ‡a (Nonpublic general note).

Examples

667	RR	‡ano qualif
150 667	RR RR	‡aGenomic Library ‡aa form of gene library containing complete DNA seq; no qualif
185 667	RR RR	‡xmicrofiche ‡acatalogers' form subhead only; for works consisting of microimages in 2- dimensional array; DF: FICHE
180 667	RR RR	‡xpharmacology ‡asubhead only; with exogenous chemicals only; includes "effect", "mechanism of action", "mode of action"; not for pharmacokinetics (= /pharmacokinetics); see also /adverse effects, /poisoning & /toxicity; see MeSH scope note in Introduction; indexing policy: Manual 19.8.53; DF: /pharmacol or /PD

Note: Main headings and their data forms (DFs) generally appear in all capitals in the text.

Conversion history

1989-1992: Main heading and subheading records--This field was not used. The AN was stored in 680 (Subject scope note, until 1991; now Public general note) subfield ‡I (Explanatory text), with an ending period added if there wasn't one.

667 - p. 33 rev. October 1, 1997

■ 680 Public general note

Indicators

Set both indicators to "b" (Undefined).

Main heading and subheading records

Create a 680 if MS (MeSH scope note) is present. Store the MS in subfield ‡I (Explanatory text).

Examples

150	RR	‡aMice, Jimpy
680	RR	‡iMyelin-deficient mutants which are from the inbred Tabby-Jimpy strain.
180	ВR	‡ximmunology
680	RR	‡iUsed for immunologic studies of tissues, organs, microorganisms, fungi,
		viruses, and animals. It includes immunologic aspects of diseases but not
		immunologic procedures used for diagnostic, preventive, or therapeutic purposes,
		for which "diagnosis", "prevention & control", or "therapy" are used. The concept
		is also used for chemicals as antigens or haptens.
008/09		d (Subdivision record)
181	RR	‡zDenmark
680	RR	‡iIncludes the Faeroe Islands.

Deviations from USMARC

Because they are not distinctively identified as such in MeSH204, neither headings nor subheadings appearing in the text of the scope note are stored in subfield $\ddagger a$ (Heading or subdivision term). They are stored in the single occurrence of subfield $\ddagger I$.

Conversion history

1989-1992: Main heading and subheading records--The AN was stored in subfield ‡I. (Until 1991, this field was named Subject scope note.) 1993: A period was added at the end of the field if one was not present.

680 - p. 34 rev. October 1, 1997

■ 688 Application history note

Indicators

Set both indicators to "b" (Undefined).

Main heading and subheading records

Create a 688 if HN (History note) is present. Store the HN in subfield ‡a (Application history note).

Examples

688	RR	$ \pm a89 $
688	RR	‡a67(64)
150 688	RR RR	‡aReceptors, Antigen, T-Cell, alpha-beta ‡a92; T-CELL RECEPTORS ALPHA-CHAIN was ANTIGEN T CELL RECEPTOR, ALPHA CHAIN (NM) 1986-91; T-CELL RECEPTORS BETA-CHAIN was ANTIGEN T CELL RECEPTOR, BETA CHAIN (NM) 1986-91
180 688	RR RR	‡xsupply & distribution ‡a68; used with Category D, E, L & N 1968-74; D, E, F4, H-J, L & N2-4 1975-87; D, E, F4, H-J, L & N 1988; D, E, F4, G1-3 & H-J 1989; D, E7, J & N2 1990 forward

Note: Main headings generally appear in all capitals.

Conversion history

1989-1992: Main heading and subheading records--This field was not used. It was not defined until 1991.

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Appendix A - Full record examples

These examples are shown in form similar to those in Appendix D in the <u>USMARC Format for Authority Data</u>. The directory is not shown; instead each tag number is displayed with its associated field.

Main heading record

Leade	r	00585nzbbb2200205nbb4500
001		D001508
003		DNLM
005		19940307000000.0
800		810226๒n๒ancnnbabn๒๒๒๒๒๒๒๒๒๒๒
040	ВR	‡aDNLM‡cDNLM
072	ВB	‡aN3.‡x349.‡x650.‡x250.‡x80‡x80
150	ВR	‡aBed Conversion
450	ВR	‡aBeds, Swing
450	ВB	
667	ВB	‡aonly likely qualif are /econ /statist
680	ВR	‡iThe reallocation of beds from one type of care service to another, as in converting acute
		care beds to long term care beds.
688	ВR	‡a91(82); was see under HEALTH FACILITY PLANNING 1982-90.

Topical subheading record

Leader	01116nzbbb2200133nbb4500		
001	Q000191		
003	DNLM		
005	19940307000000.0		
008	770516๒n๒dncnnbaba๒๒๒๒๒๒๒๒๒๒๒๒		
040 bb	‡aDNLM‡cDNLM		
073 bb	‡aC1‡aC2‡aC3‡aC4‡aC5‡aC6‡aC7‡aC8‡aC9‡aC10‡aC11‡aC12		
	‡aC13‡aC14‡aC15‡aC16‡aC17‡aC18‡aC19‡aC20‡aC21‡aC22‡aC23		
	‡aD1‡aD2‡aD3‡aD4‡aD5‡aD6‡aD7‡aD08‡aD9‡aD10‡aD11‡aD12		
	‡aD13‡aD14‡aD15‡aD16‡aD17‡aD18‡aD19‡aD20‡aD21‡aD22‡aD23		
	‡aD24‡aD25‡aD26‡aE1‡aE2‡aE3‡aE4‡aE6‡aE7‡aF3‡aG1‡aG2‡aI2		
	‡aI3‡aJ1‡J2aN2‡aN3‡aN4		
180 RR	+xeconomics		
450 BB	‡aEC		
667 bb	‡asubhead only; includes "finances", "financing", "funding", "costs", "fees", "salaries",		
	"financial management", etc.; see MeSH scope note in Introduction; indexing policy:		
	Manual 19.8.26; DF: /econ or /EC		
980 RR	‡iUsed for the economic aspects of any subject, as well as for all aspects of financial		
	management. It includes the raising or providing of funds.		
688 pp	‡a78; used with Category C, E, F3 & N2-4 1978-79; C, E, F3-4, G1-3, I2, J, L & N2-4		
	1980-87; C, E, F3-4, G1-3, I2, J, L, N2-4 & SMOKING 1988; C, E, F3-4, G1-3, I2, J, L,		
	N2-4 & SMOKING+ 1989; C, E, F3-4, G1-2, I2-3, J & N2-4 1990-91; C, D, E, F3-4,		
	G1-2 I2-3, J & N2-4 1992 forward.		

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Combination main heading/subheading record

Leader		00175nzbbb2200073nbb4500
001		D001508Q000191
003		DNLM
005		19940307000000.0
800		810226๒n๒ancnnbabn๒๒๒๒๒๒๒๒๒๒๒
040	ВR	‡aDNLM‡cDNLM
150	ВR	

Form subheading record

Leader		01116nzbbb2200133nbb4500
001		Q000091
003		DNLM
005		19890629000000.0
800		741004๒n๒dncnnbaba๒๒๒๒๒๒๒๒๒๒๒๒
040	ВR	‡aDNLM‡cDNLM
185	ВB	≠ vbiography
667	bв	+a catalogers' form subhead only; for collected or individual biographies
		of named groups (Cat M) or in specialty fields; see Appendix A for double-form
subheads; see also /biobibliography, /directories & /personal narratives; DF: B		nds; see also /biobibliography, /directories & /personal narratives; DF: BIOG
680	ВB	‡iUnder names of classes of persons (or the respective field if no comprehensive heading
		for classes of persons is available) for collected or individual biography: Nurses -
		biography; Homeopathy - biography. sa biobibliography; directories; personal narratives.

Geographic subheading record

Leader		00151nzbbb2200073nbb4500
001		Q000397
003		DNLM
005		19940307000000.0
800		741004๒n๒dncnnbabd๒๒๒๒๒๒๒๒๒๒๒๒
040	RR	‡aDNLM‡cDNLM
181	RR	‡zMongolia

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Appendix B - Index by MeSH204 and ELHILL field

MeSH204/ELHILL field AN BX CX DA DC DQ DX DY EC EN EP FX HN MH	USMARC field 667 450, 451, 550 360 008/00-05 008/09 008/00-05 008/00-05 008/00-05 450 450, 451 450, 451 550, 551 688 150, 151, 155
DX	008/00-05
DY	008/00-05
EC	450
EN	450, 451
EP	450, 451
FX	550, 551
HN	688
MH	150, 151, 155
MN	072
MS	680
PT	450, 451
QA	480
QT	008/17
QX	480, 481
SH	180, 181, 185
TN	073
UI	001

The following are used in the conversion process for the specified fields, but their contents are not converted:

450, 451, 550, 551
185, 480, 481

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